

FIG.1

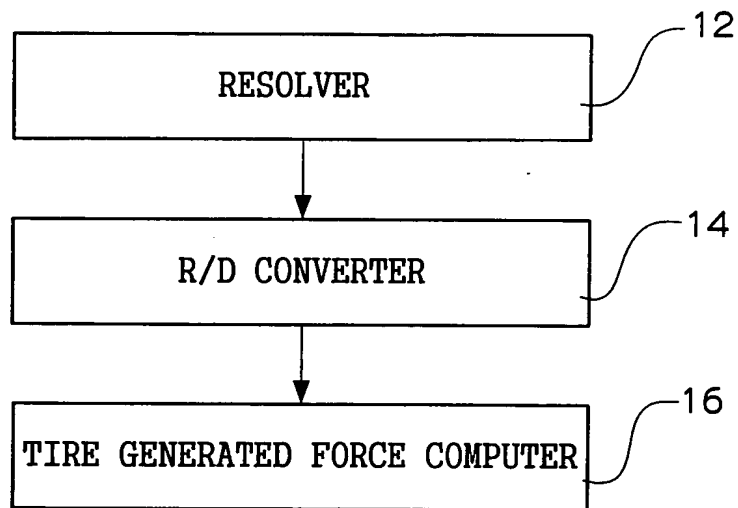


FIG.2

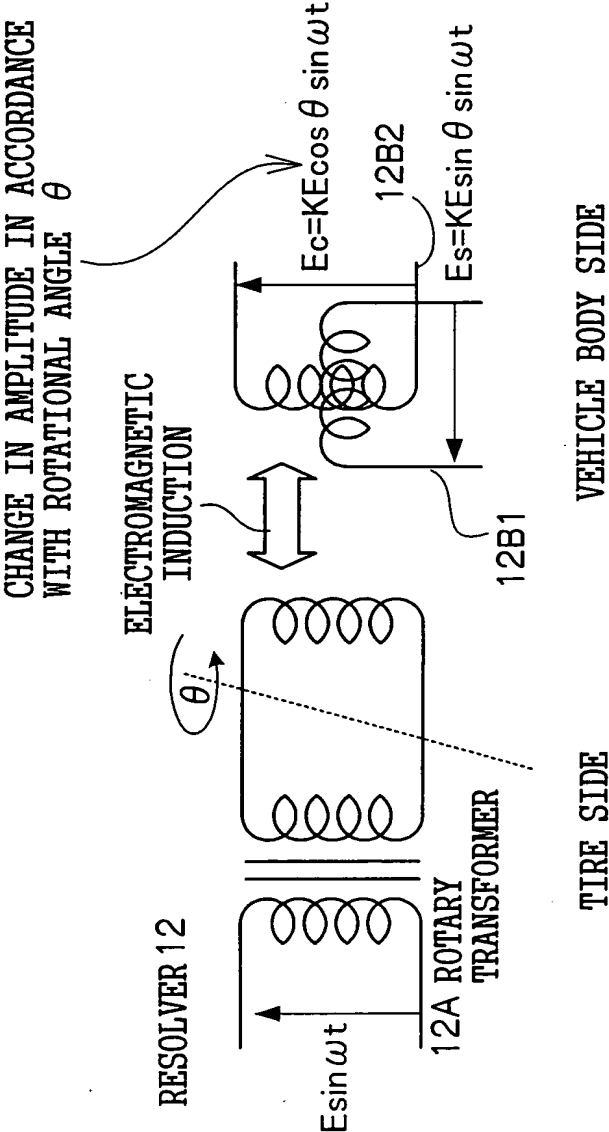


FIG.3

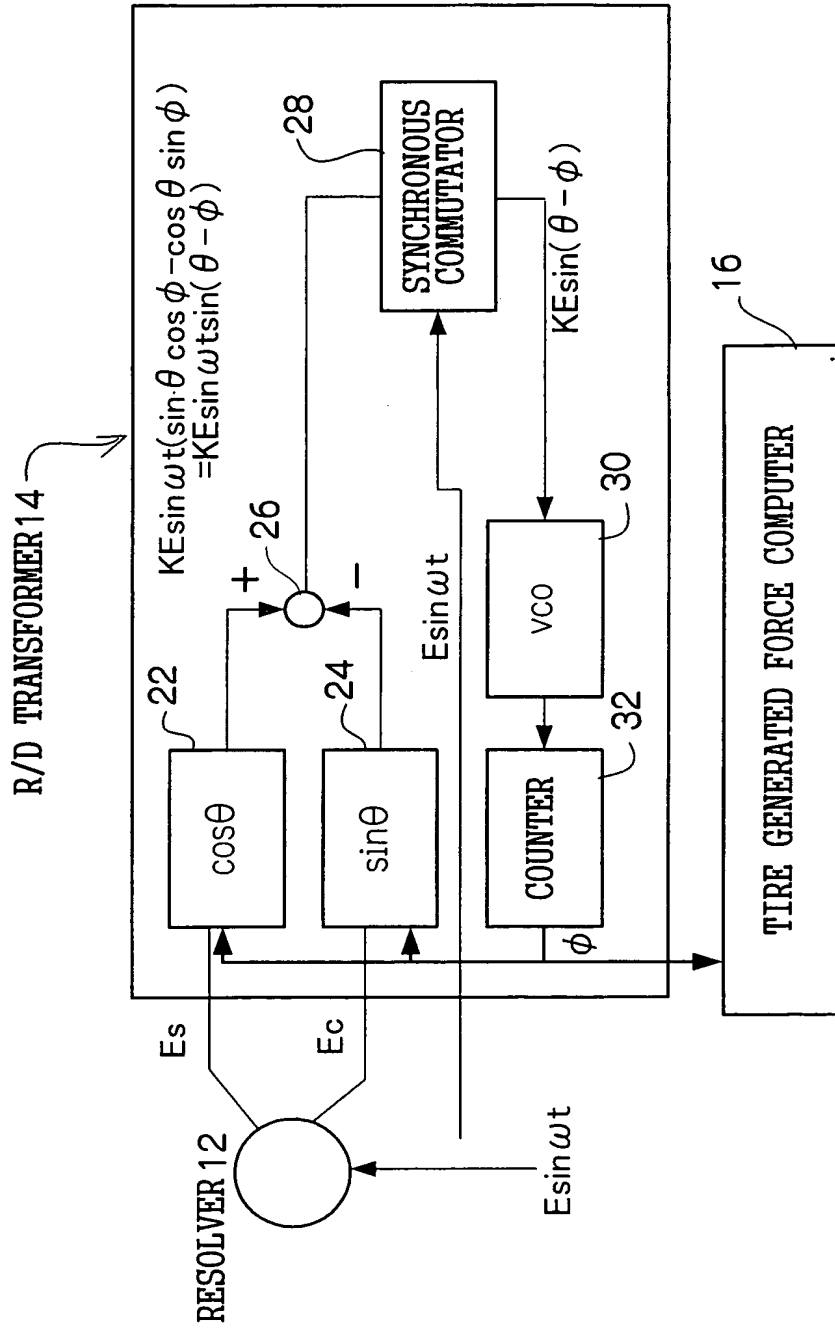


FIG.4

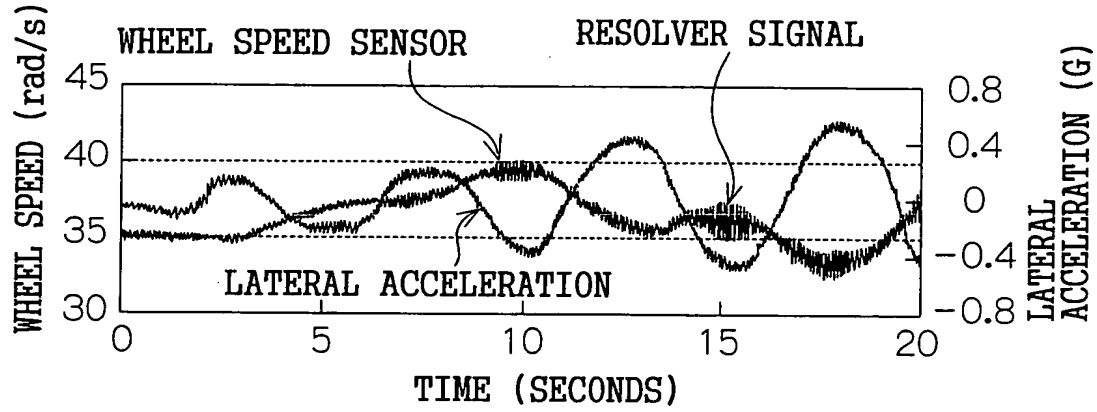


FIG.5

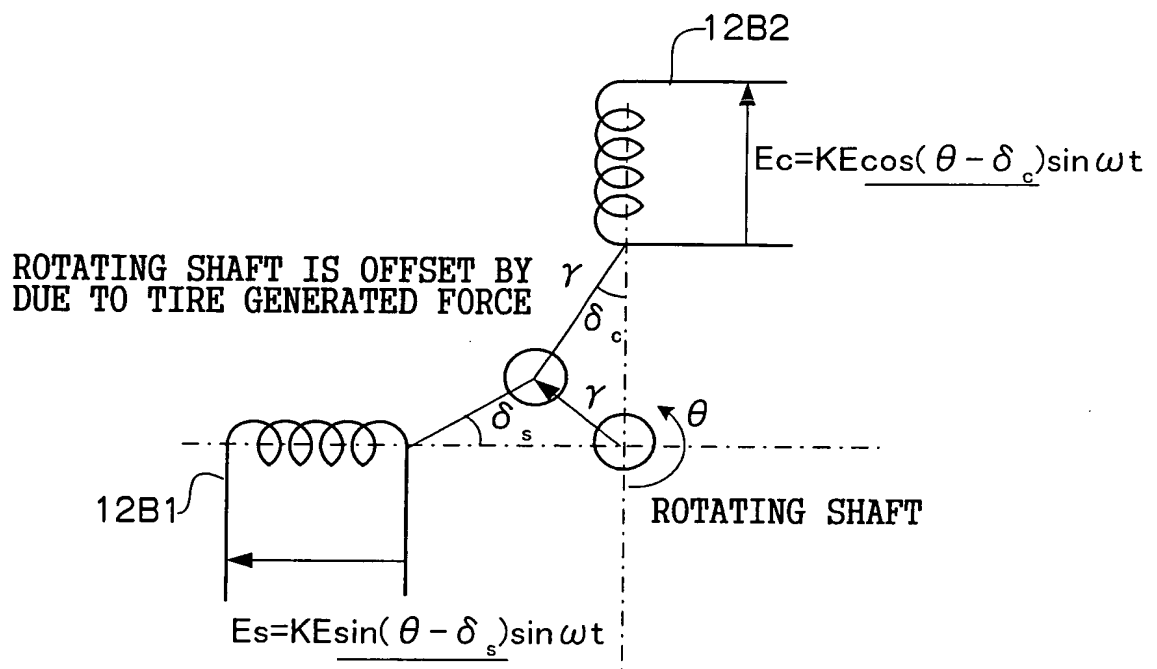


FIG.6

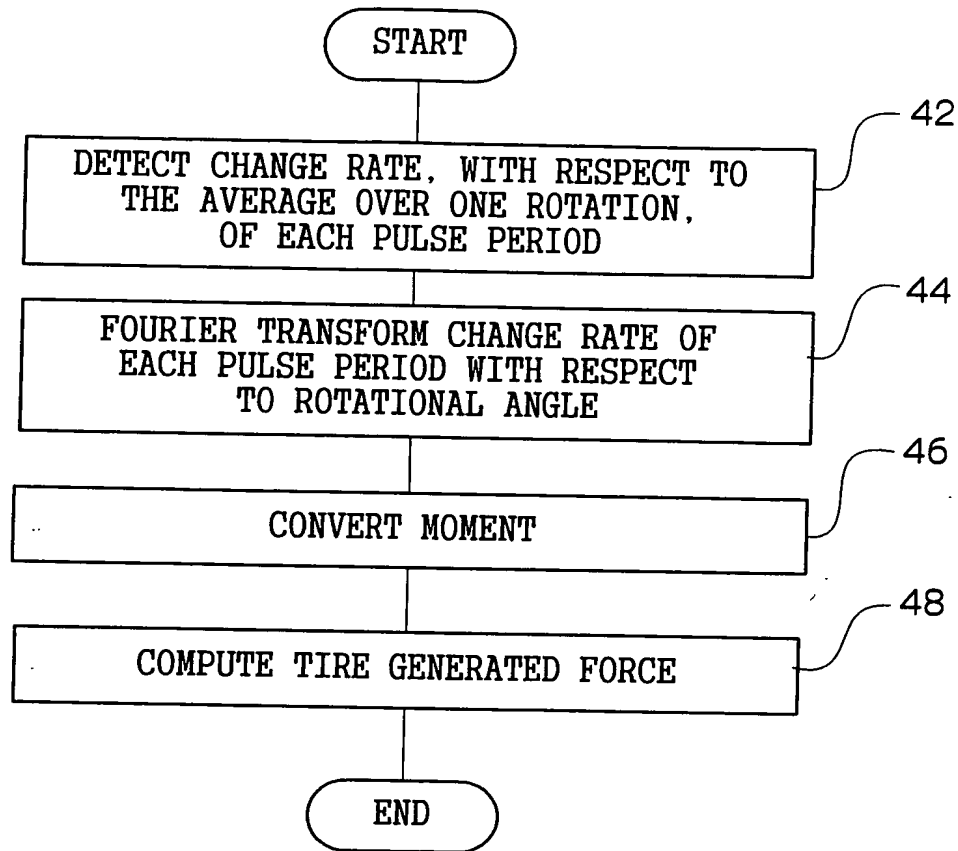


FIG.7

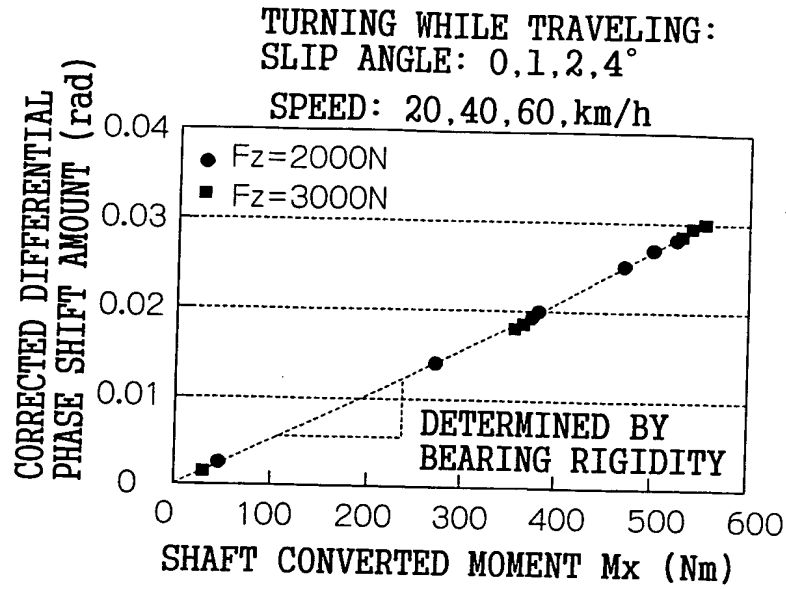


FIG.8

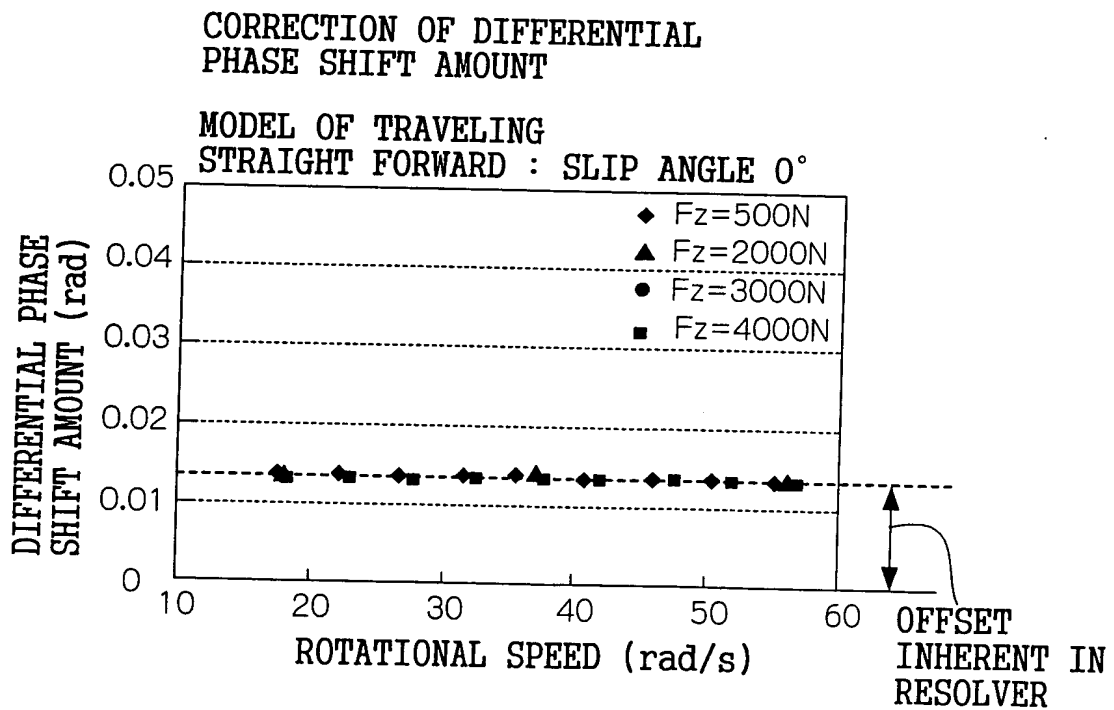


FIG.9A

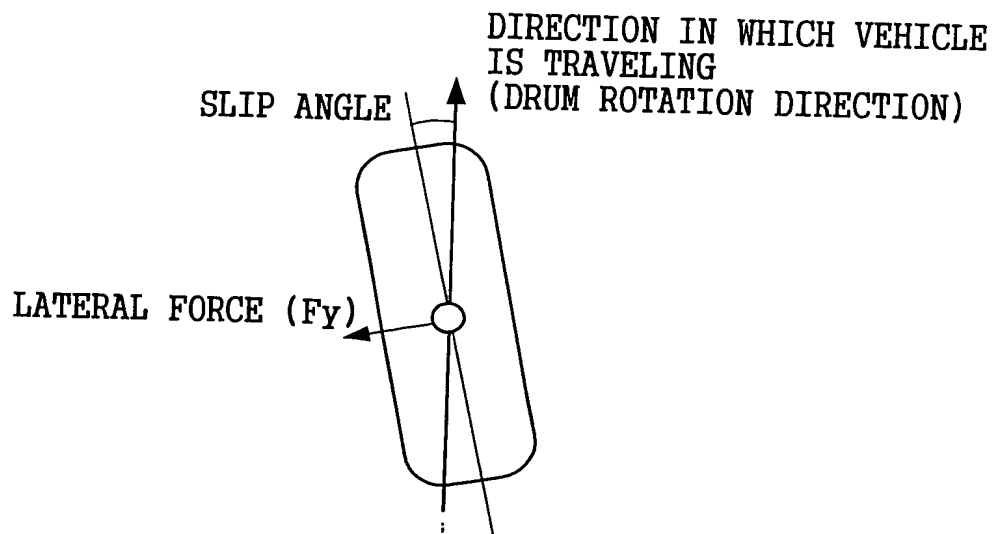


FIG.9B

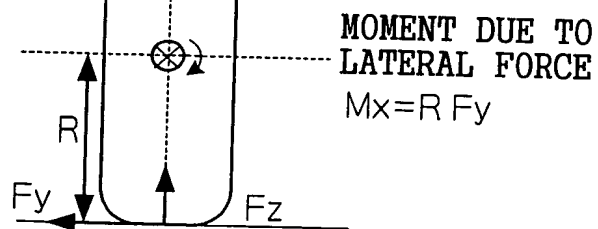


FIG.10A

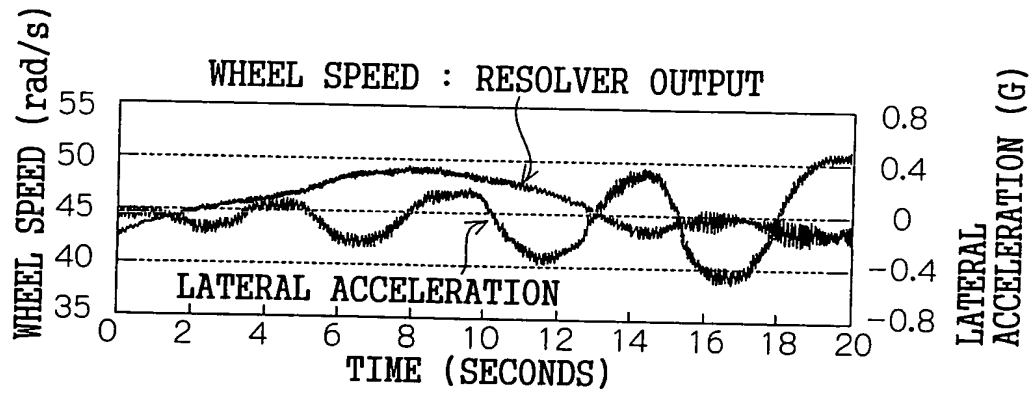
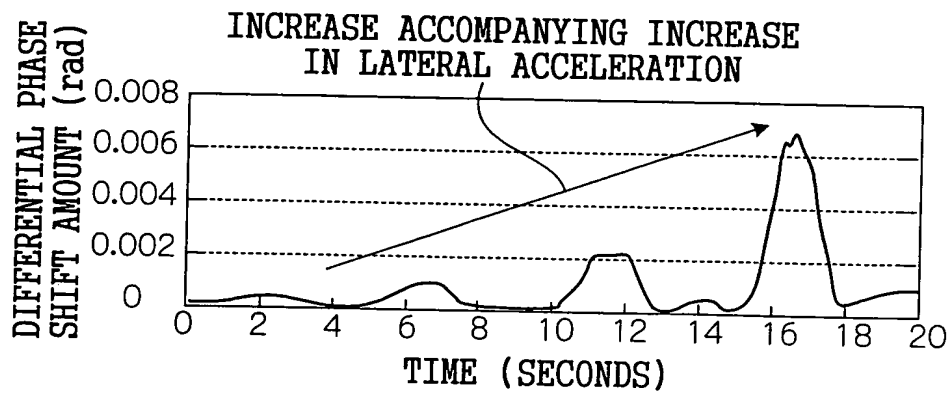


FIG.10B



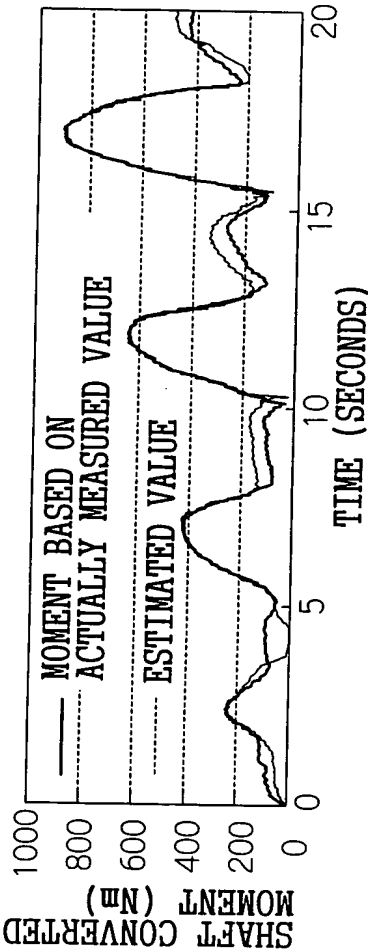
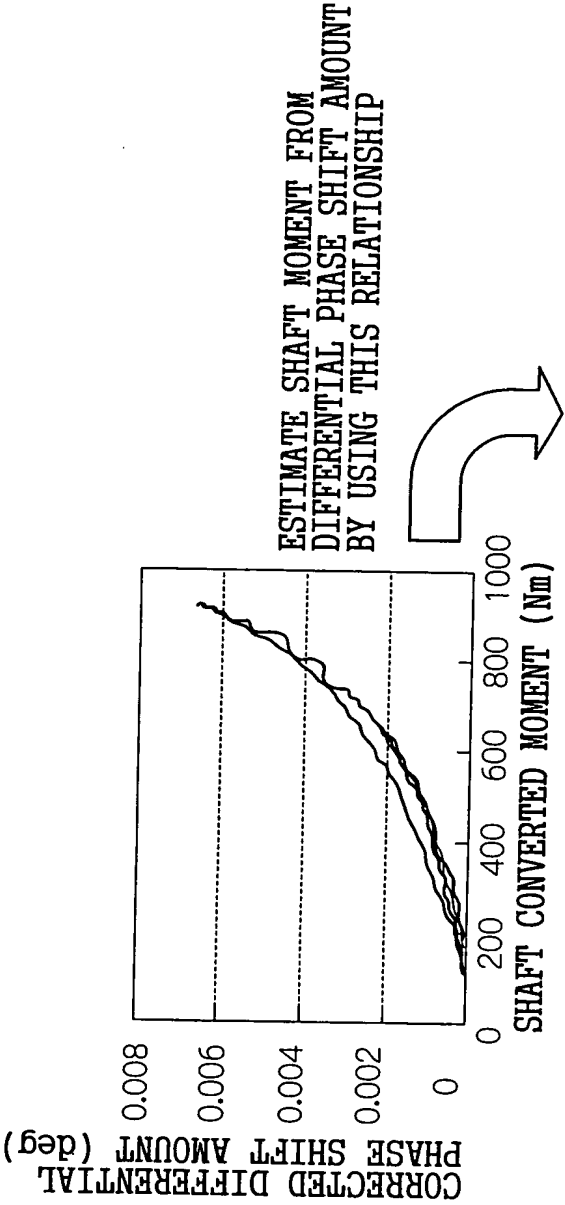


FIG.12

BEHAVIOR OF DETECTED SPEED WHEN SLIP ANGLE ARISES

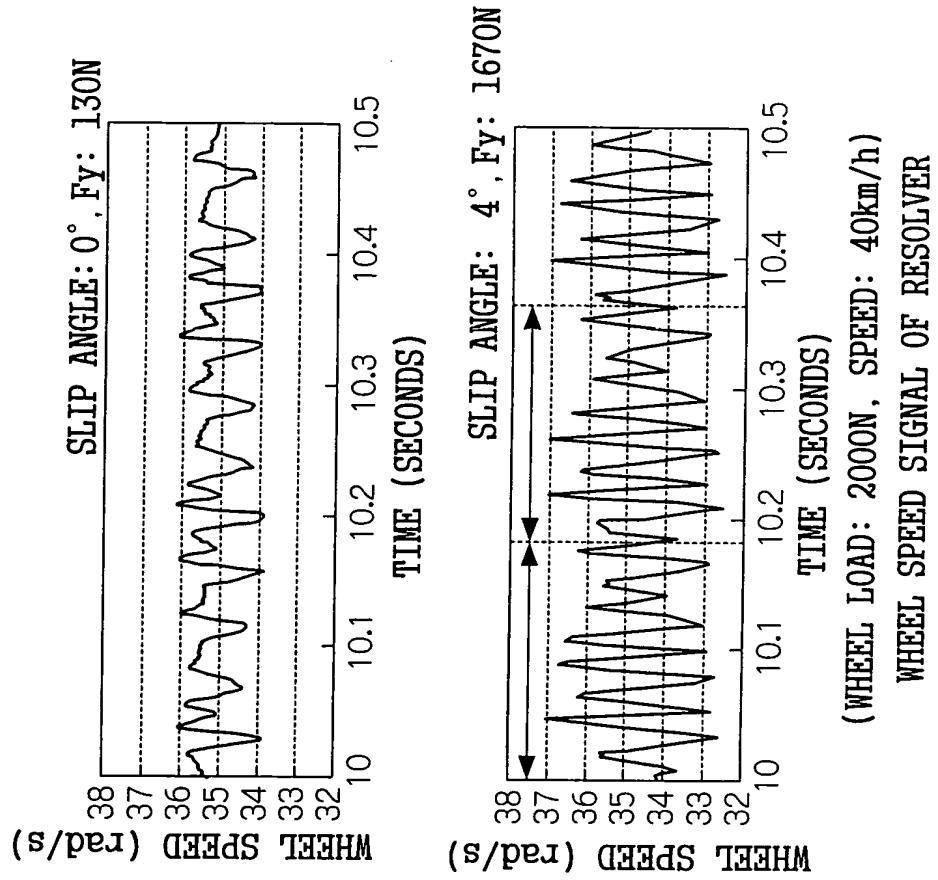


FIG.13

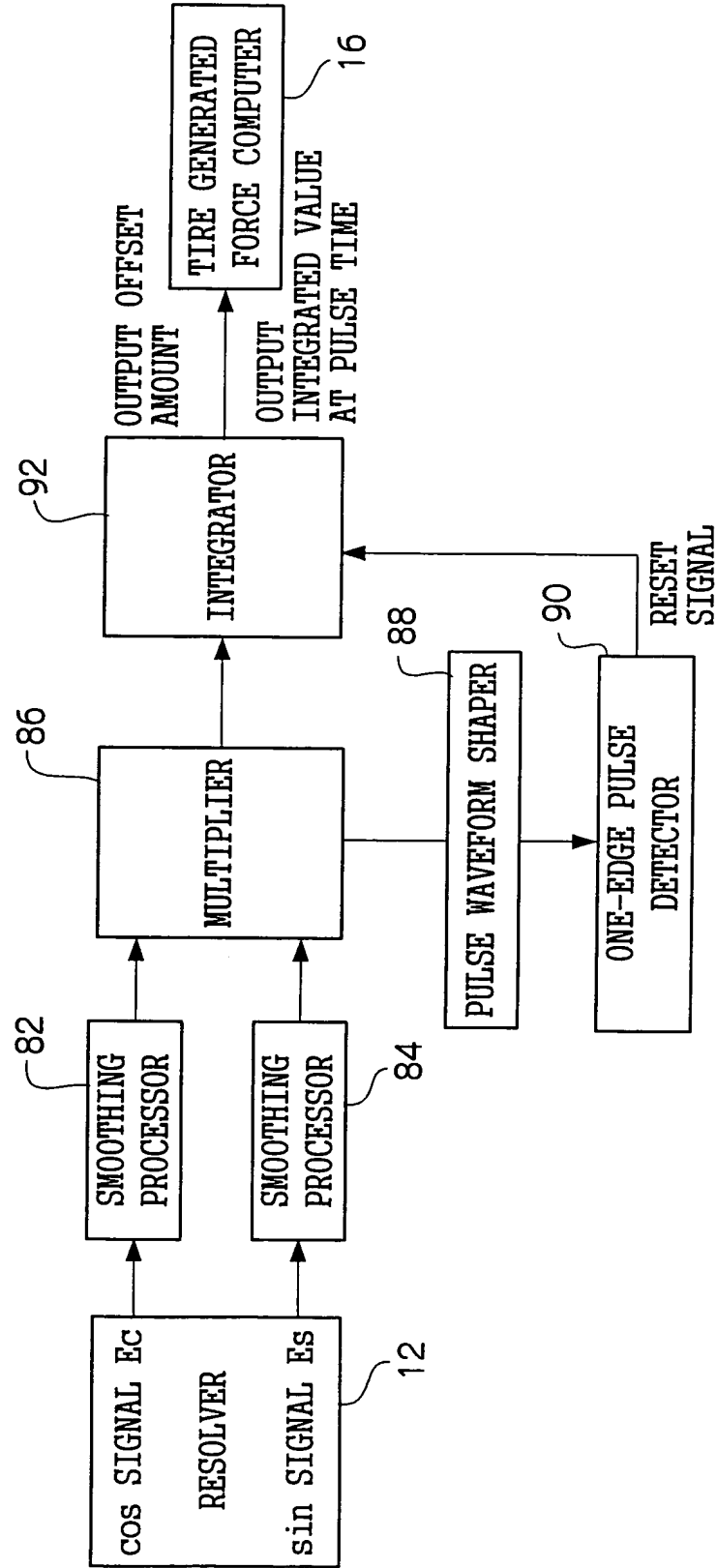
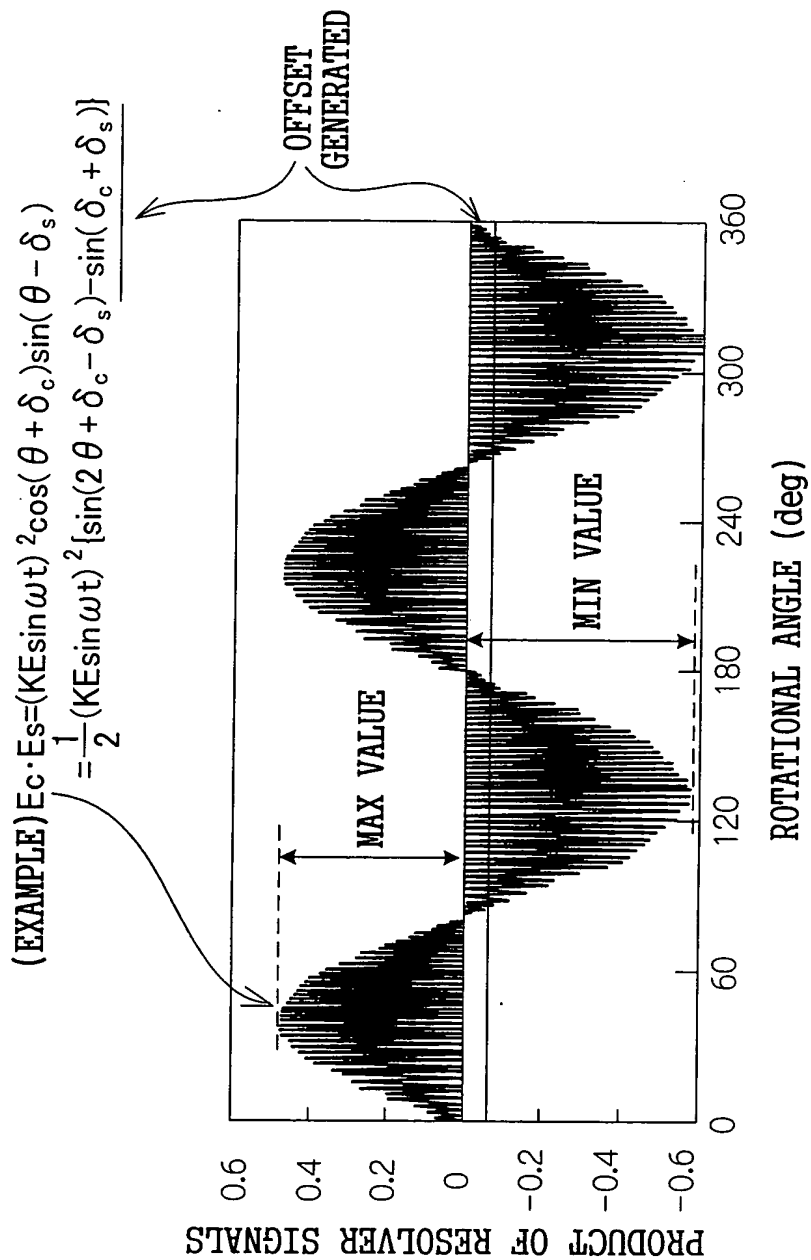


FIG.14



BEST AVAILABLE COPY

FIG.15

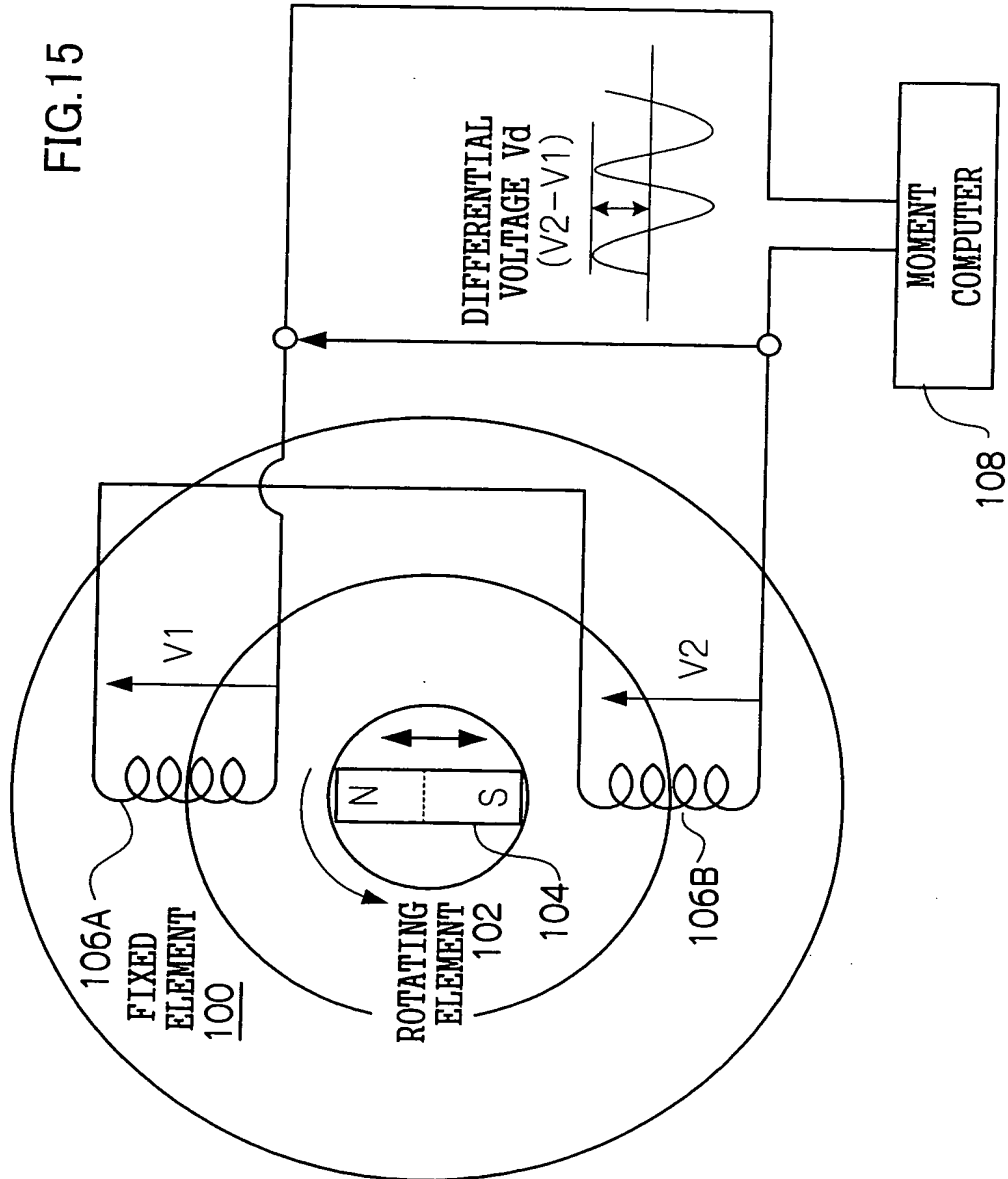


FIG.16A

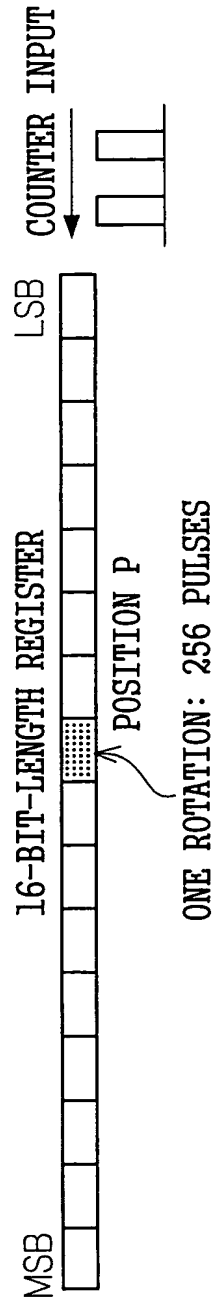


FIG.16B

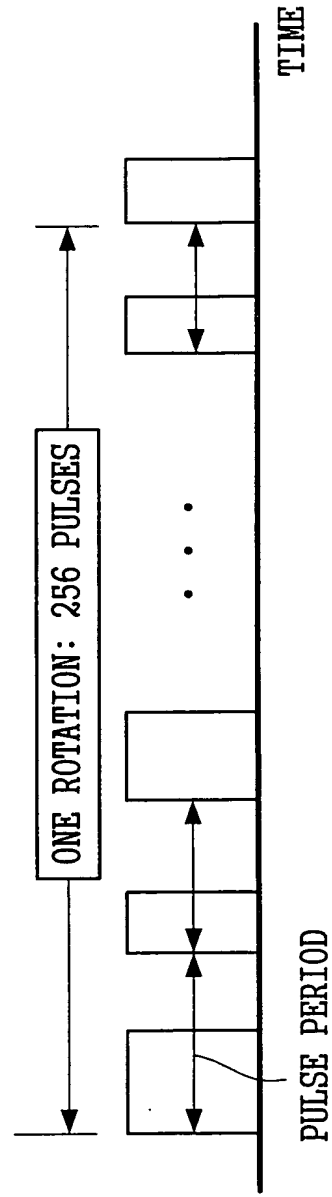


FIG.17

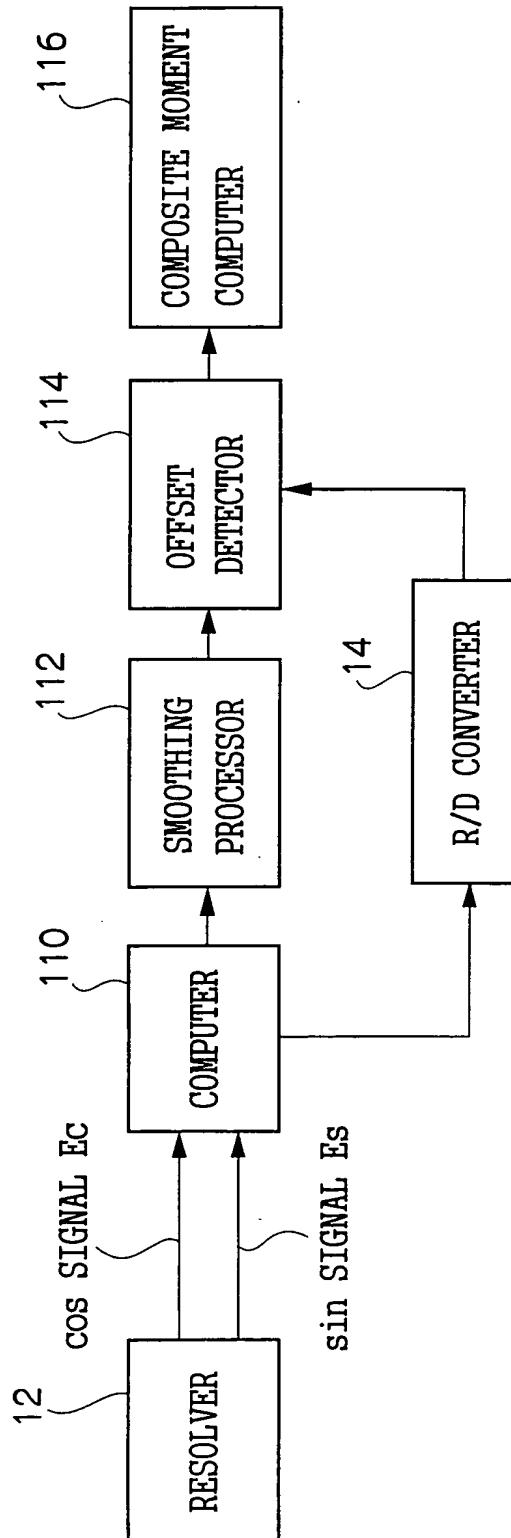


FIG.18A

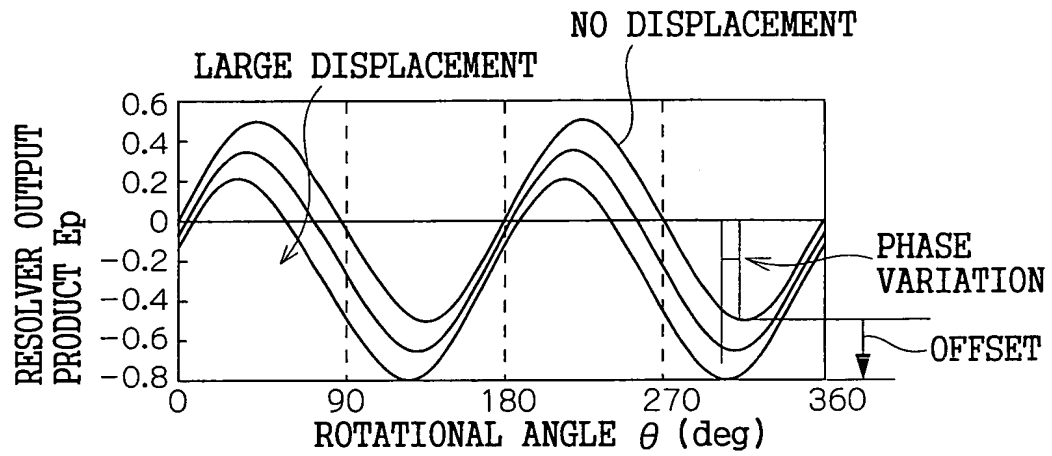


FIG.18B

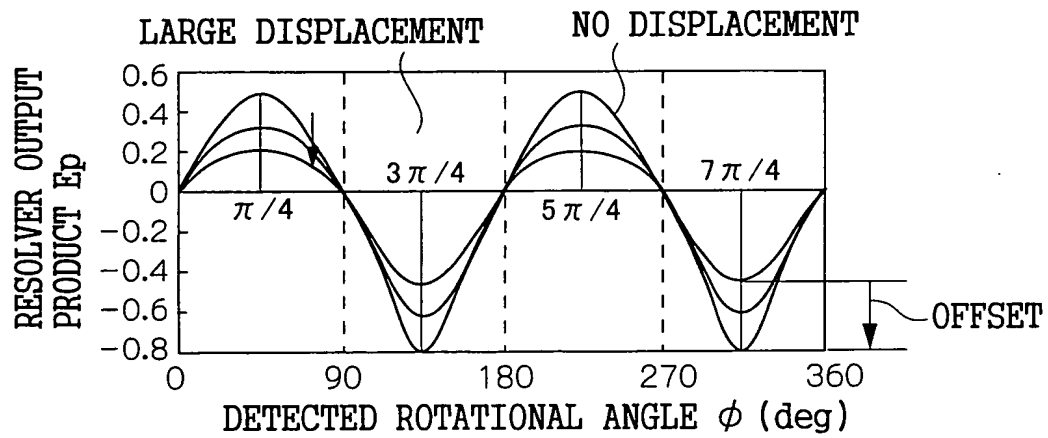


FIG.19

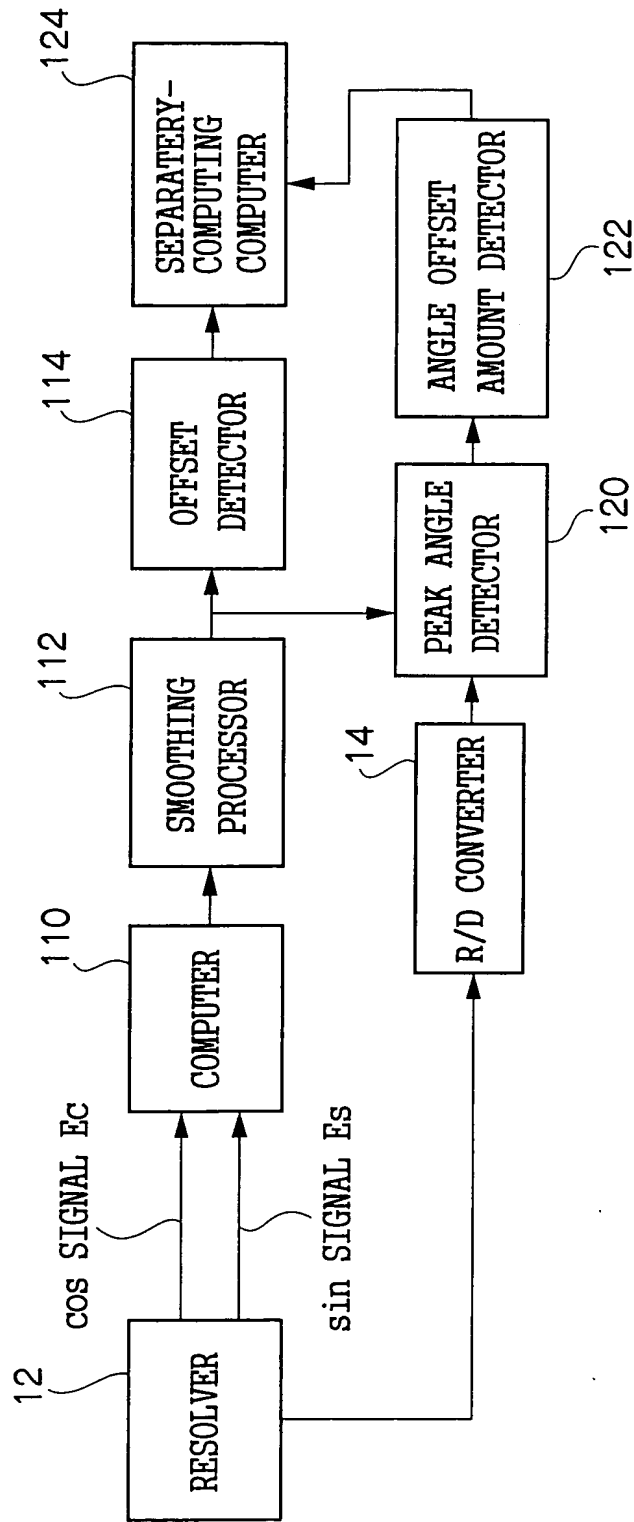
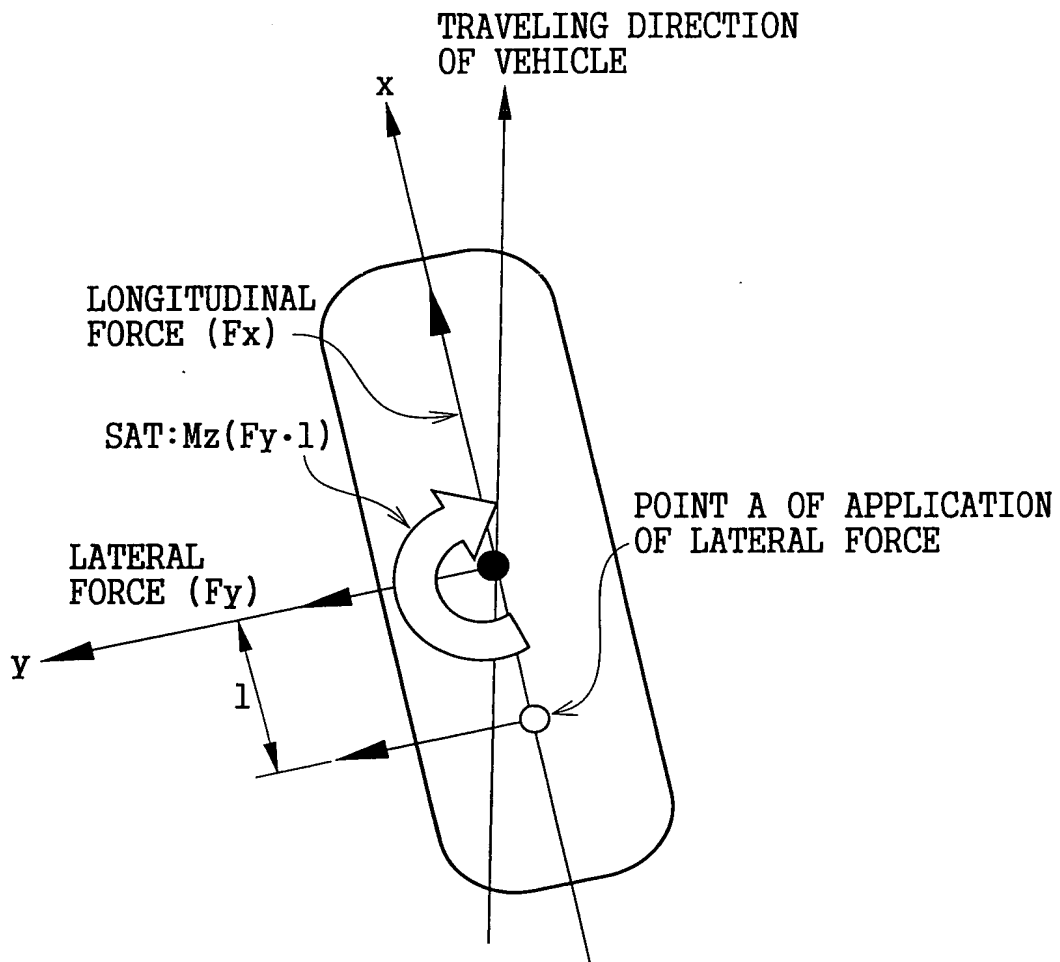


FIG.20



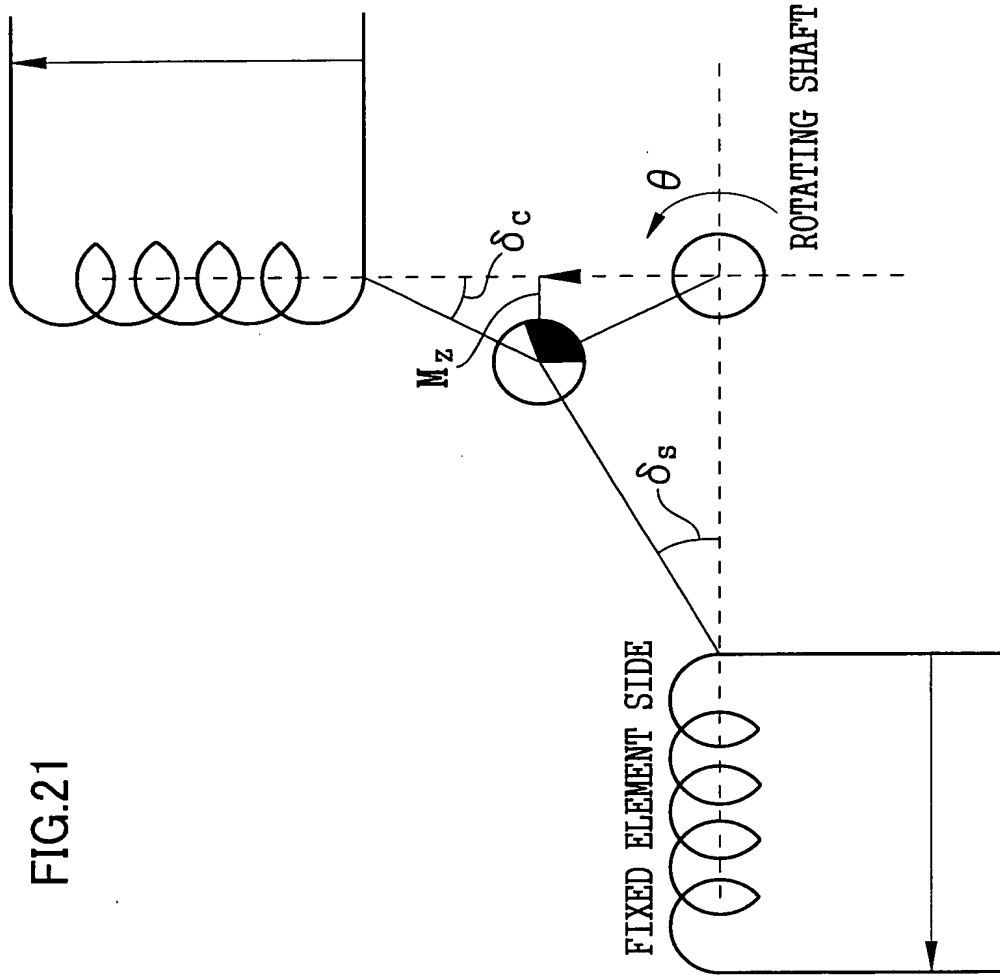


FIG.22

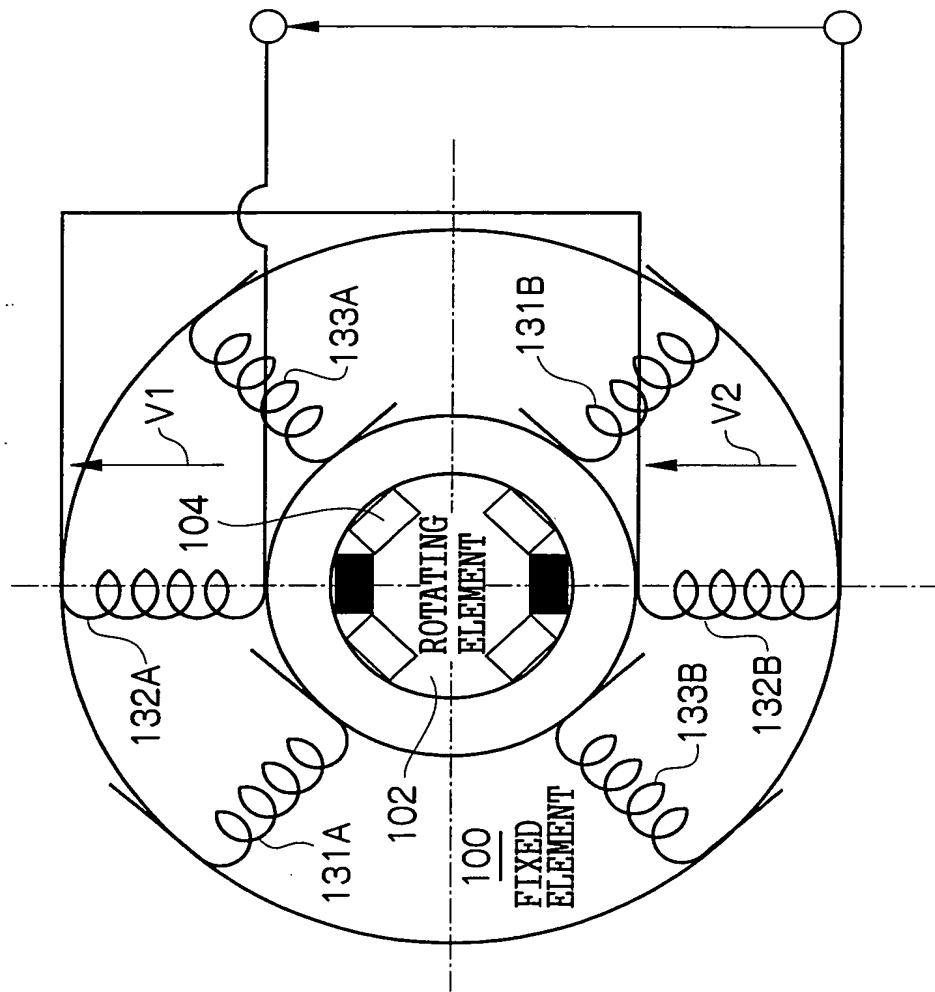


FIG.23

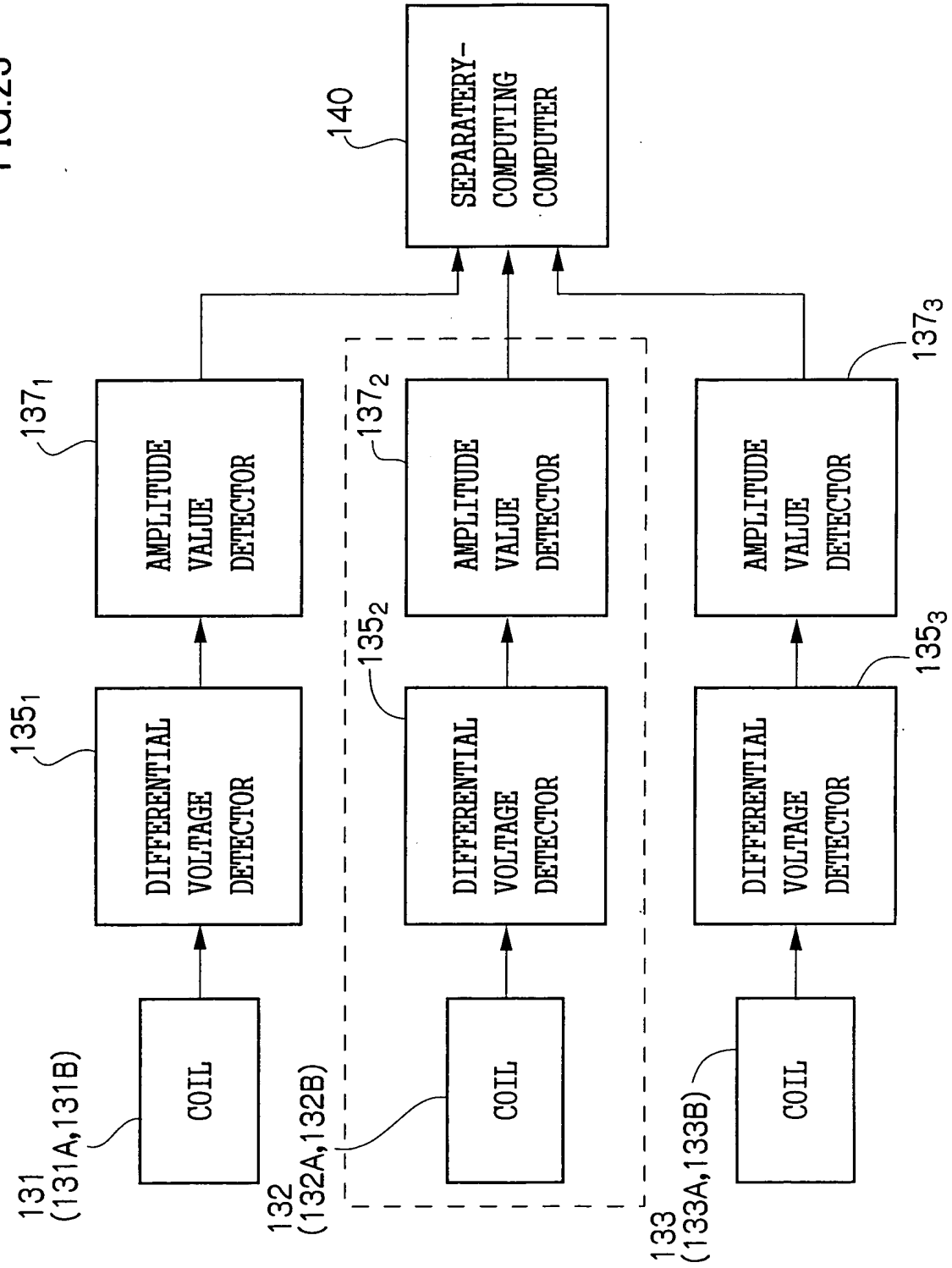


FIG.24A

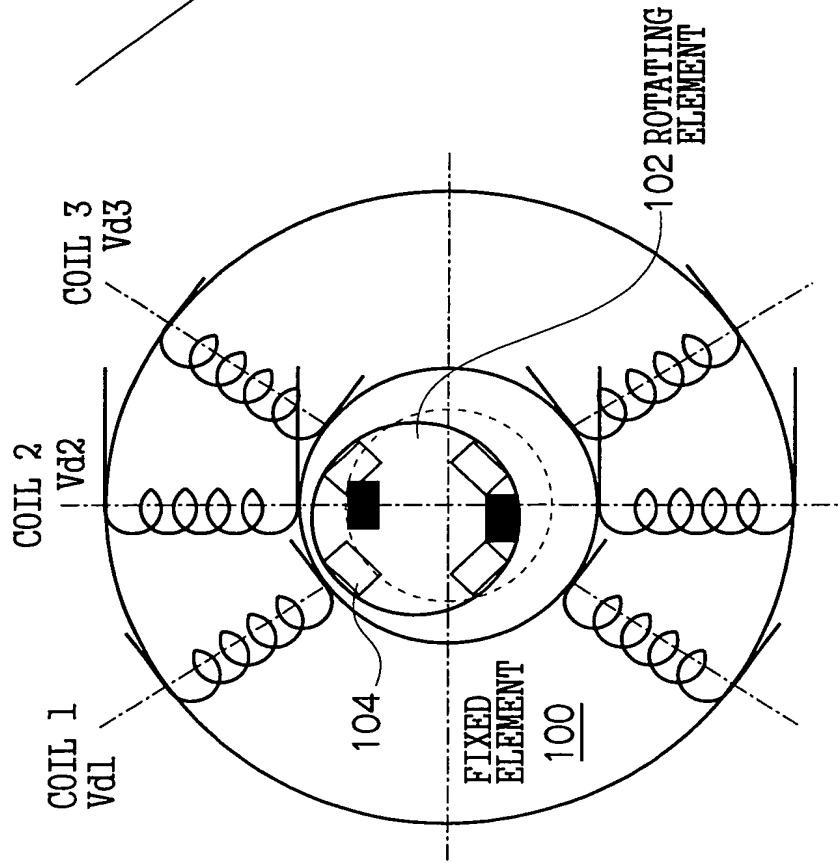
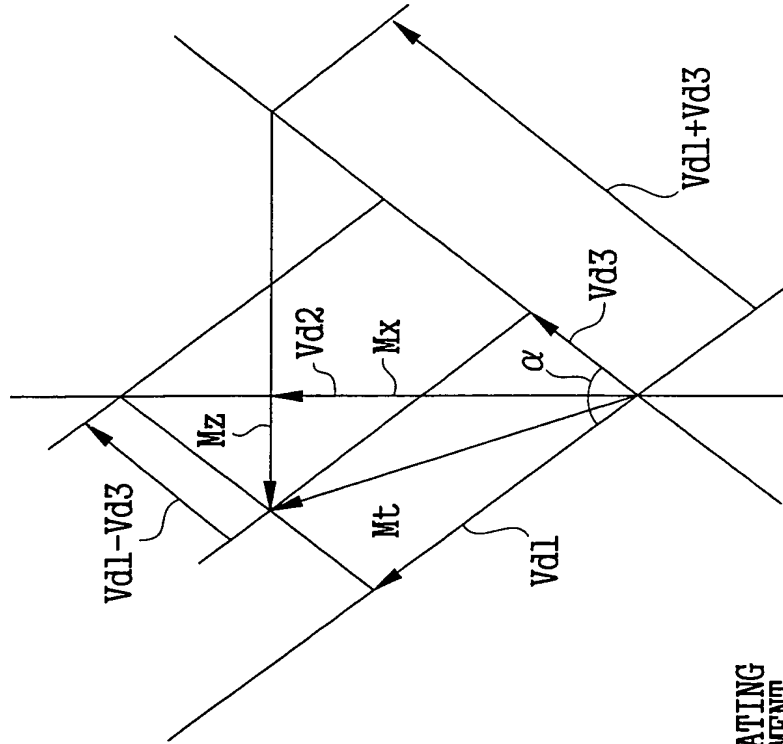


FIG.24B



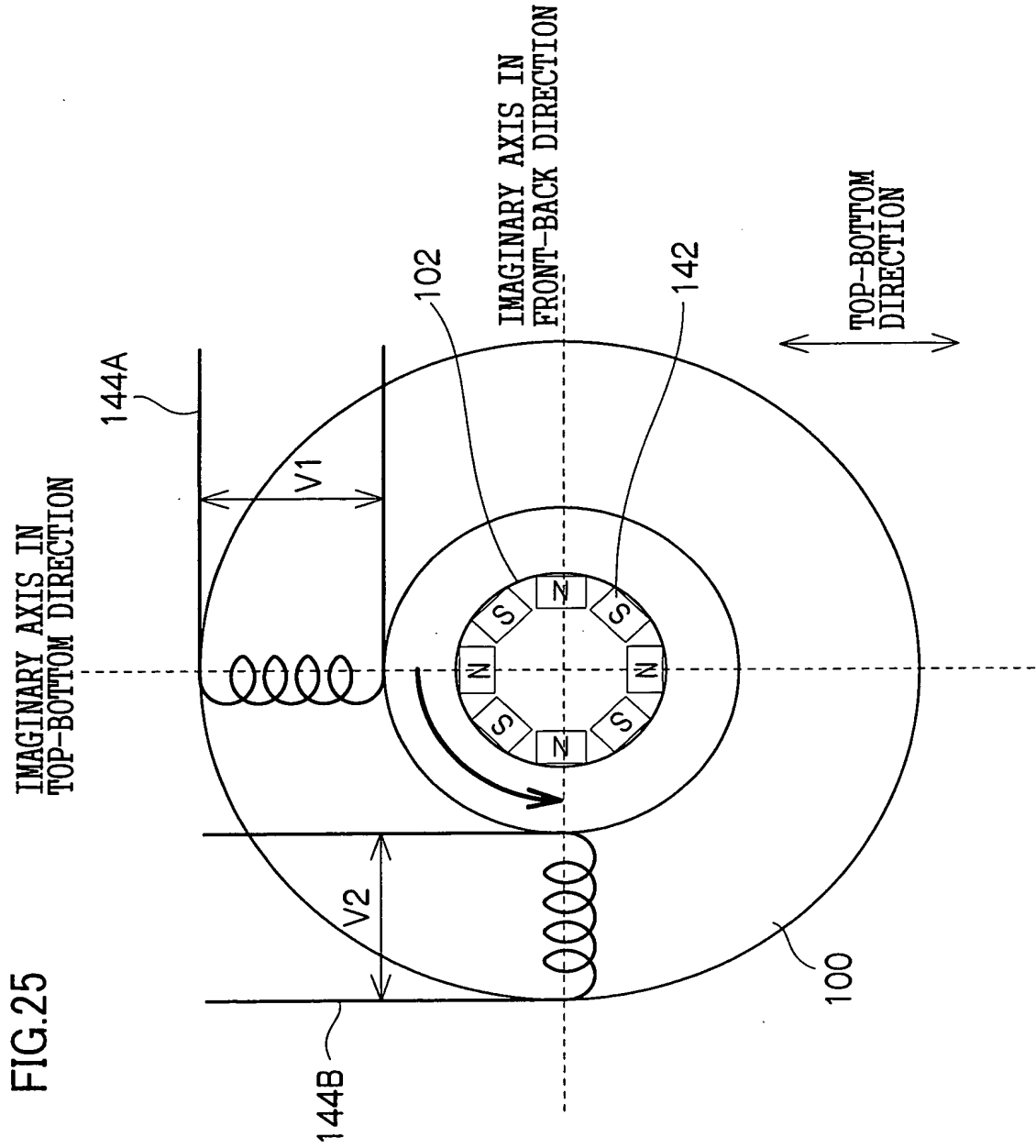


FIG.26

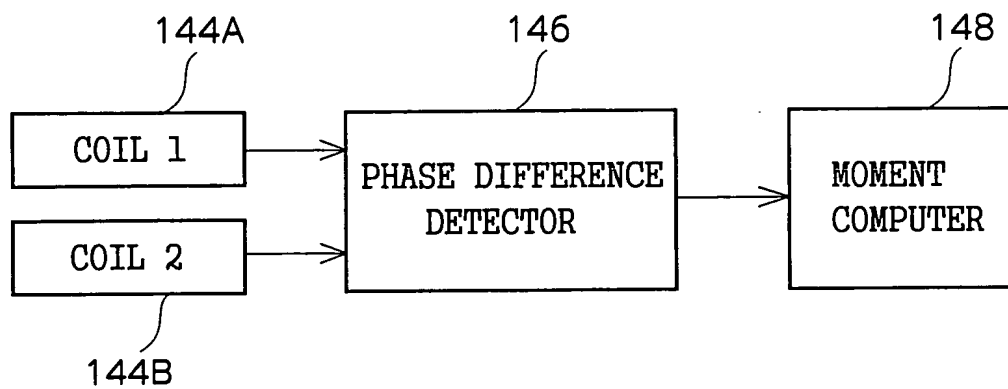


FIG.27A

WHEN ROTATING SHAFT IS AT CENTER
→ PHASE DIFFERENCE BETWEEN V1 AND V2 IS ZERO

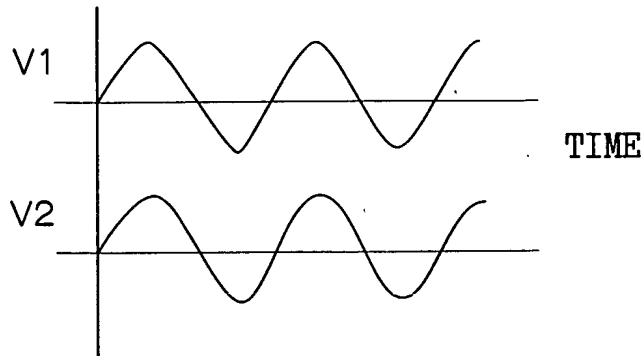
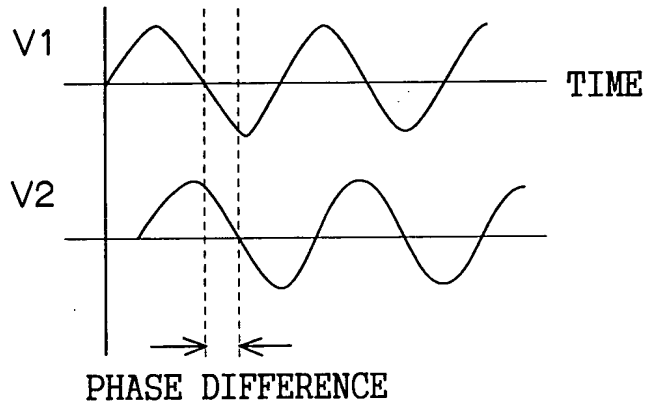


FIG.27B

WHEN ROTATING SHAFT IS DISPLACED
IN THE TOP-BOTTOM DIRECTION
→ A PHASE DIFFERENCE BETWEEN V1 AND V2 ARISES



WHEN ROTATING SHAFT IS DISPLACED UPWARD:
THE PHASE OF V2 LAGS

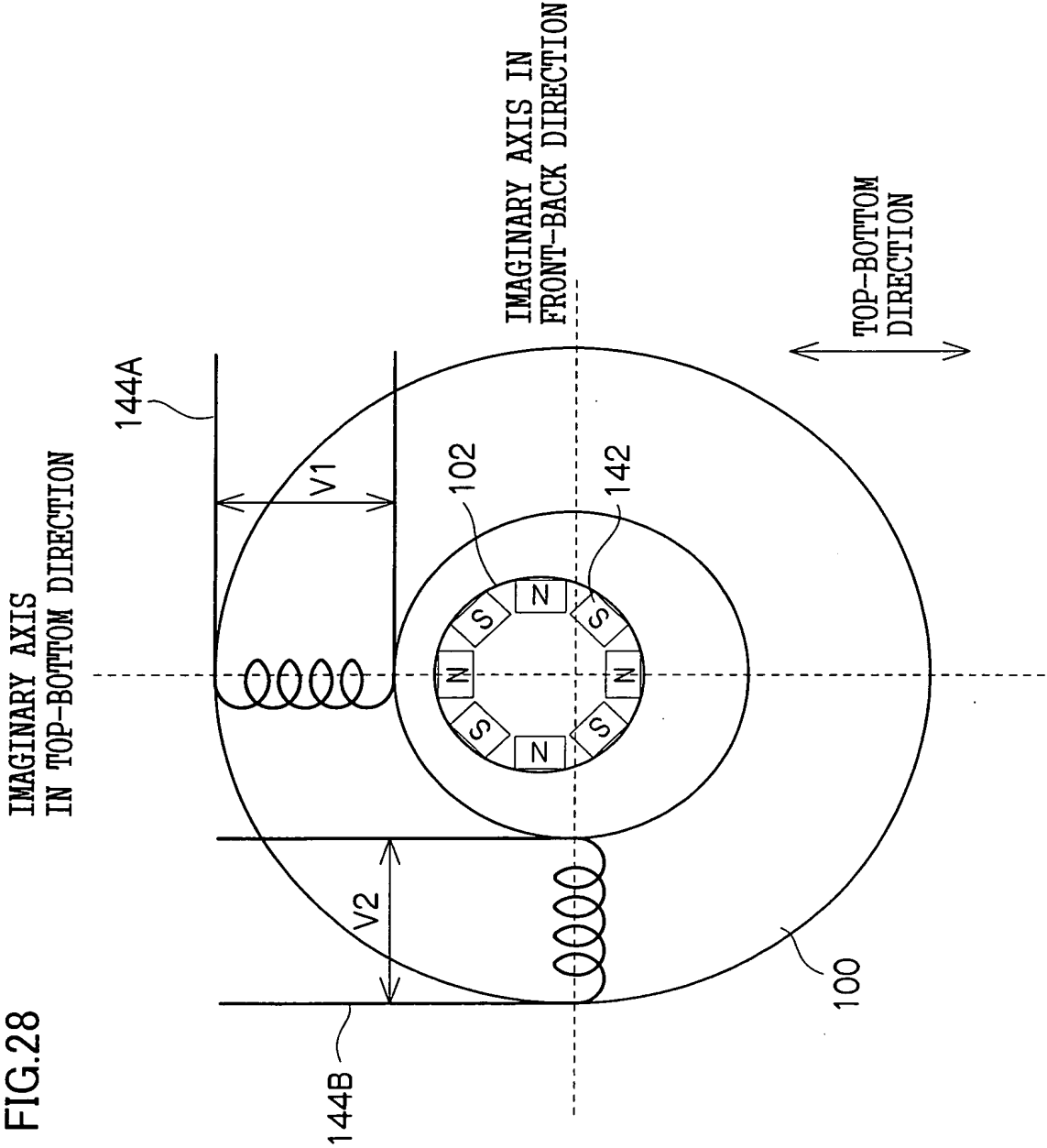


FIG.29

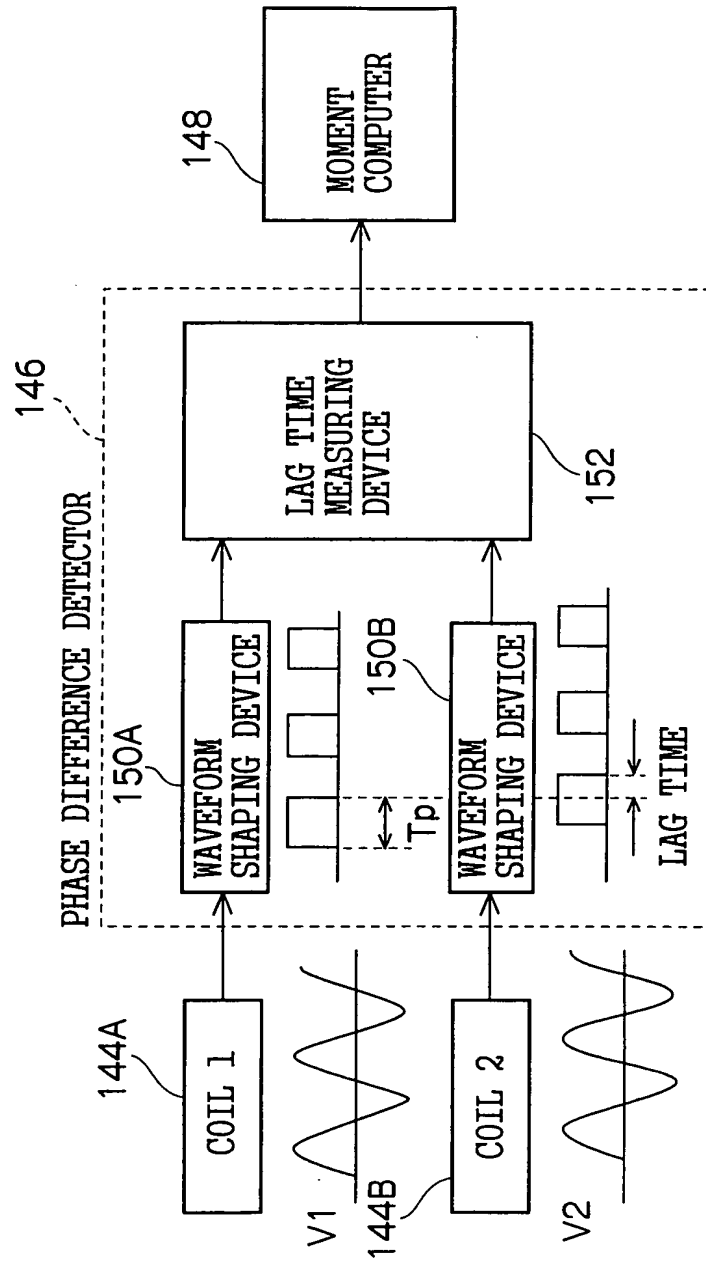


FIG.30

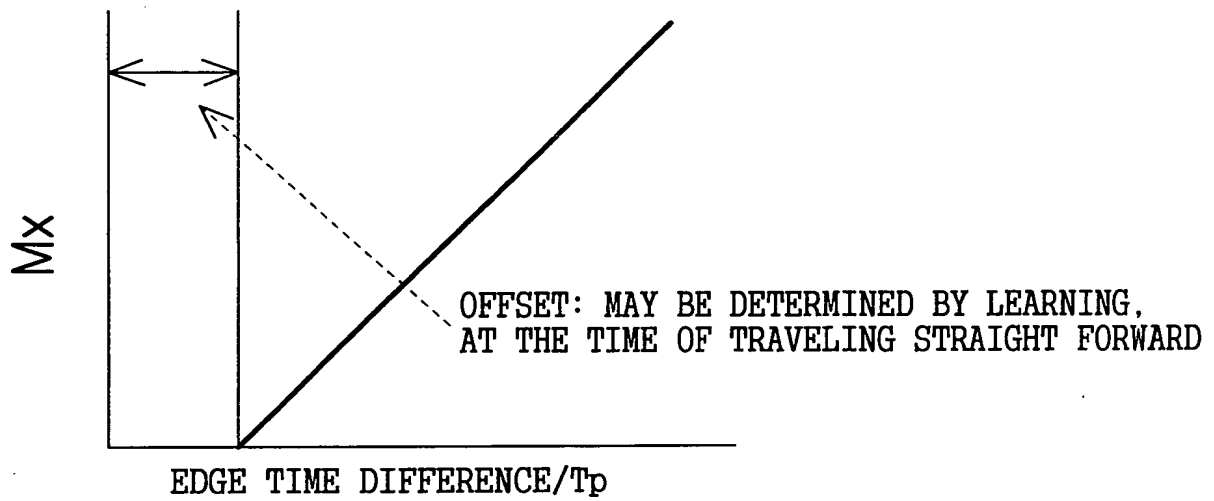


FIG.31

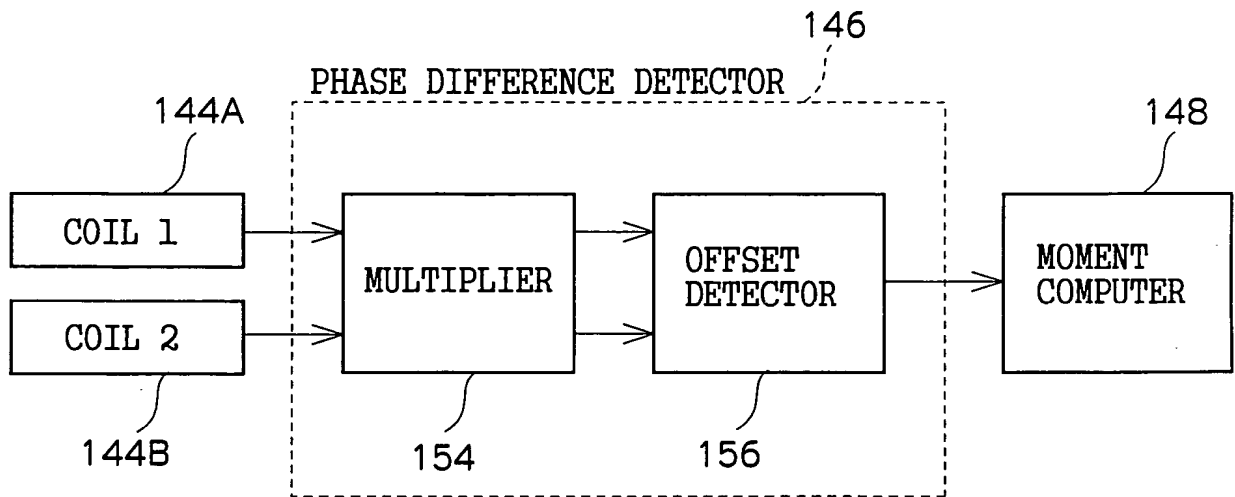


FIG. 32

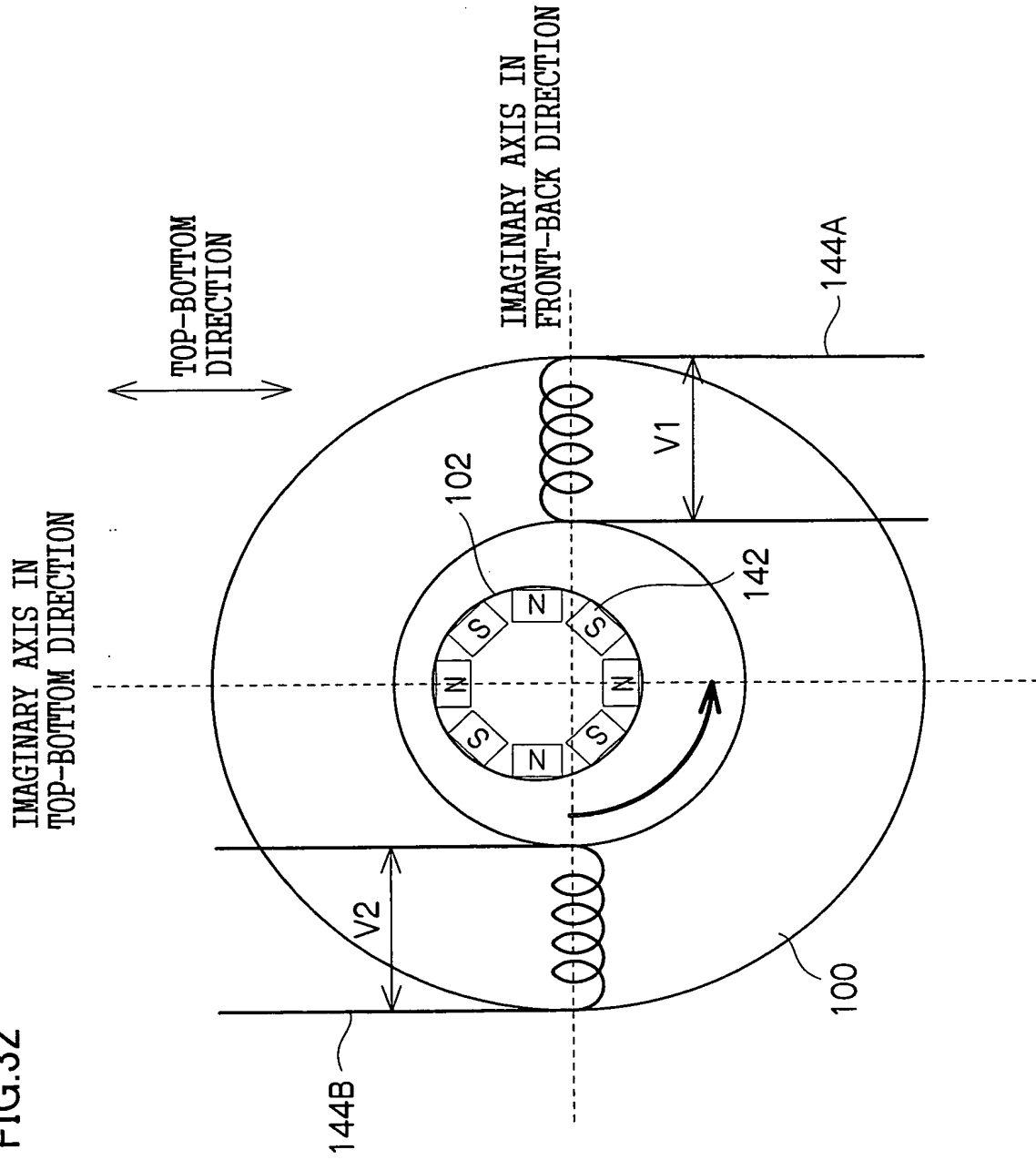


FIG.33

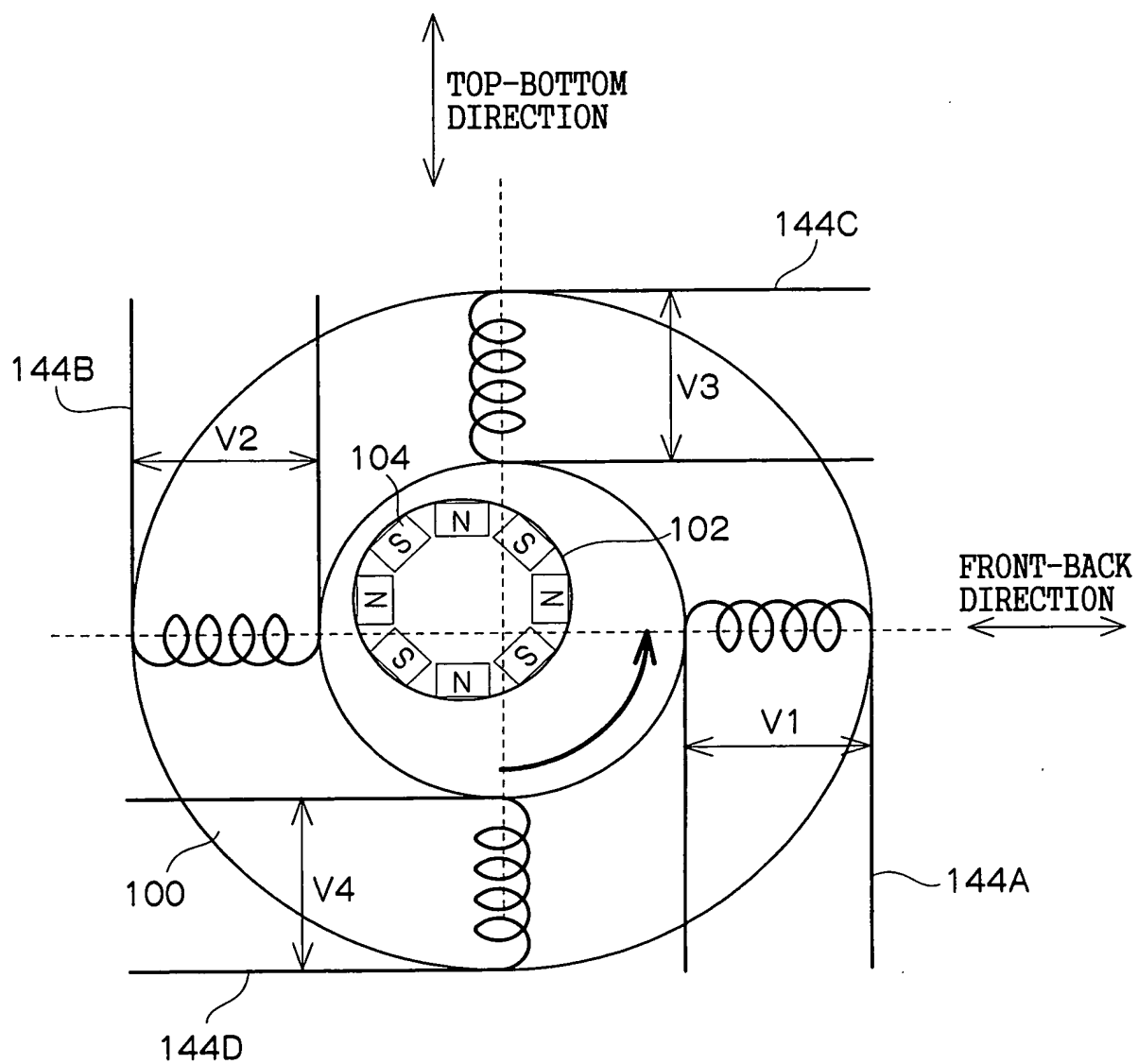


FIG.34

